

ABSTRACT OF THE DISCLOSURE

An apparatus for use in components such as servo-valves, regulators and injectors for stabilizing system oscillations. The apparatus includes an armature having at least one groove formed on an exterior surface thereof; a sleeve, the armature being movably disposed in the sleeve; and a spring member disposed in the at least one groove in the armature and in sliding contact with the sleeve wherein the spring member exerts a radially outwardly directed spring force against the sleeve. A method of stabilizing an electromagnetically operated actuator comprises providing an armature having at least one groove formed on an exterior surface thereof; providing a sleeve wherein the armature is movably disposed in the sleeve; and disposing a spring member in the at least one groove in the armature and in sliding contact with the sleeve whereby the spring member exerts a radially outwardly directed spring force against the sleeve.

15